

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently Amended): An information processing apparatus comprising:

a) encoding means for error detection or correction encoding information to be distributed in a Markup language description format used in a multimedia network, said encoding means error detection or correction encoding at least a portion in a header in the information to be distributed with higher redundancy than an entity in the information to be distributed, ~~wherein the information to be distributed is information of a Markup language format~~; and

b) transmission means for multiplexing the information to be distributed encoded by said encoding means in a broadcast signal, and transmitting the multiplexed signal, ~~wherein said transmission means is also arranged so as to multiplex second information into the broadcast signal without using the Markup language description format to transmit the thus-multiplexed signal.~~

Claim 2 (Original): An apparatus according to claim 1, wherein the broadcast signal is an FM audio broadcast signal, and said transmission means frequency-multiplexes the information to be distributed in a frequency band different from an FM-modulated audio signal.

Claim 3 (Canceled)

Claim 4 (Currently Amended): An apparatus according to claim 3 1, wherein the ~~other second~~ information includes character information, and the ~~information to be distributed~~ ~~Markup language description format~~ is ~~information in information~~ an HTML (HyperText Markup Language) format.

Claim 5 (Currently Amended): An apparatus according to claim 3 1, wherein the data format forms an error correction code, the ~~information to be distributed~~ is transmitted as an entity in the data format, and the header of the ~~information to be distributed~~ forms another error correction code.

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Claim 6 (Original): An apparatus according to claim 1, wherein the information to be distributed can contain character information and image information as an entity thereof, and when the entity is the character information, the information to be distributed has higher redundancy than when the entity is the image information.

Claim 7 (Original): An apparatus according to claim 1, wherein the header of the information to be distributed is transmitted a plurality of number of times while being distributed in the entity.

Claim 8 (Currently Amended): An information processing apparatus comprising:
a) input means for inputting information to be distributed in a ~~Markup language~~ description format used in a multimedia network, ~~wherein the information to be distributed is information of a Markup language format~~; and

b) transmission means for multiplexing the information to be distributed in a broadcast signal and transmitting the multiplexed signal,

wherein a portion of a header in the information to be distributed being is transmitted at least a plurality of number of times while an entity in the information to be distributed is transmitted, and

wherein said transmission means is also arranged so as to multiplex second information into the broadcast signal without using the Markup language description format to transmit the thus-multiplexed signal.

Claim 9 (Canceled)

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Claim 10 (Currently Amended): An apparatus according to claim 9 8, wherein the other second information includes character information, and the information to be distributed Markup language description format is information in an HTML (HyperText Markup Language) format.

Claim 11 (Original): An apparatus according to claim 10, wherein the data format forms an error correction code, and the header of the information to be distributed forms another error correction code.

Claim 12 (Currently Amended): An information processing apparatus comprising:

a) encoding means for error detection or correction encoding information to be distributed in a Markup language description format used in a multimedia network, wherein the information to be distributed is information of a Markup language format; and

b) transmission means for multiplexing the information to be distributed encoded by said encoding means in a broadcast signal, and transmitting the multiplexed signal, wherein a plurality of kinds of information being are able to be transmitted as an entity in the information to be distributed, and wherein said encoding means using uses different error detection or correction ability in correspondence with the kind of information, and wherein said transmission means is also arranged so as to multiplex second information into the broadcast signal without using the Markup language description format to transmit the thus-multiplexed signal.

Claim 13 (Canceled)

Claim 14 (Currently Amended): An apparatus according to claim 13 12, wherein the other second information includes character information, and the information to be distributed Markup language description format is information in an HTML (HyperText Markup Language) format.

Claims 15-17 (Canceled)

Claim 18 (Currently Amended): An information processing method comprising the steps of:

error detection or correction encoding information to be distributed in a Markup language description format used in a multimedia network, at least a portion in a header in the information to be distributed being error detection or correction encoded with higher redundancy than an entity in the information to be distributed, wherein the information to be distributed is information of a Markup language format; and

multiplexing the encoded information to be distributed in a broadcast signal, and transmitting the multiplexed signal,

wherein said multiplexing step is also arranged so as to multiplex second information into the broadcast signal without using the Markup language description format to transmit the thus-multiplexed signal.

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Claim 19 (Currently Amended). An information processing method comprising the steps of:

inputting information to be distributed in a Markup language description format used in a multimedia network, wherein the information to be distributed is information of a Markup language format; and

multiplexing the information to be distributed in a broadcast signal and transmitting the multiplexed signal, wherein a portion of a header in the information to be distributed is transmitted at least a plurality of number of times while an entity in the information to be distributed is transmitted, and wherein said multiplexing step is also arranged so as to multiplex second information into the broadcast signal without using the Markup language description format to transmit the thus-multiplexed signal.

Claim 20 (Currently Amended): An information processing method comprising the steps of:

error detection or correction encoding information to be distributed in a Markup language description format used in a multimedia network, ~~wherein the information to be distributed is information of a Markup language format~~; and

multiplexing the encoded information to be distributed in a broadcast signal, and transmitting the multiplexed signal, wherein a plurality of kinds of information ~~being~~ are able to be transmitted as an entity in the information to be distributed, and wherein different error detection or correction ability ~~being~~ is used in correspondence with the kind of information, and wherein said multiplexing step is also arranged so as to multiplex second information into the broadcast signal without using the Markup language description format to transmit the thus-multiplexed signal.

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Claim 21 (Canceled)

Claim 22 (Currently Amended): An information processing apparatus comprising;

a) reception means for receiving a ~~first~~ broadcast signal obtained by multiplexing ~~first~~ information to be distributed in a Markup language description format used in a multimedia network and ~~an a first~~ error ~~correction or detection~~ check code added for ~~at least~~ ~~partial information of~~ the information to be distributed, ~~as an entity of a data format which is used for multiplexing predetermined information in an FM audio signal and includes an error correction check code, wherein the information to be distributed is information of a Markup~~

~~language format wherein said reception means is also arranged so as to receive a second broadcast signal provided by multiplexing second information distributed without using the Markup language description format, and a second error check code; and~~

b) processing means for performing error correction or detection processing of the information ~~to be distributed~~ using the first error correction check code ~~and the error correction or detection check code,~~

~~wherein said processing means executing processing based on the error correction check code and processing based on the error correction or detection check code at different timings is also arranged so as to execute the error correction or detection processing on the second information by using the second error check code, when the second broadcast signal is received by said reception means.~~

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Claims 23-25 (Canceled)

Claim 26 (Currently Amended): An apparatus according to claim ~~25~~ 22, wherein the predetermined first and second information is character information ~~in a description format which is not used in the multimedia network, and the character information and character information in the information to be distributed can be displayed using common display means, and wherein said apparatus further comprises output means for outputting the character information processed by said processing means to display means.~~

Claim 27 (Currently Amended): An apparatus according to claim 26, wherein the first information ~~to be distributed~~ includes image information, and ~~the~~ said display means

displays a message indicating reception of the image information when the image information is received.

Claim 28 (Original): An apparatus according to claim 26, further comprising; storage means for storing the information to be distributed; and informing means for informing that the received information to be distributed is stored in said storage means and has not been output to an external device.

Claim 29 (Currently Amended): An apparatus according to claim 26 22, wherein ~~the predetermined information includes character information, and the information to be distributed~~ Markup language description format is information in an HTML (HyperText Markup Language) format.

Claims 30-31 (Canceled)

Claim 32 (Original): An information processing apparatus comprising:

- reception means for receiving a broadcast signal obtained by multiplexing information to be distributed in a description format, used in a multimedia network, as an entity of a data format used for multiplexing first character information in an FM audio signal; and
- display means for displaying the first character information, said display means displaying second character information when the information to be distributed has the second character information.

Claim 33 (Original): An apparatus according to claim 32, wherein when the information to be distributed has image information, said display means displays a message indicating reception of the image information .

Claim 34 (Original): An apparatus according to claim 32, wherein the information to be distributed is information in an HTML (HyperText Markup Language) format.

Claims 35-37 (Canceled)

Claim 38 (Currently Amended): An information processing method comprising the steps of:

receiving a first broadcast signal obtained by multiplexing first information to be distributed in a Markup language description format used in a multimedia network and ~~an a~~ first error ~~correction or detection~~ check code added for ~~at least partial information~~ of the information to be distributed, ~~as an entity of a data format which is used for multiplexing predetermined information in an FM audio signal and includes an error correction check code, wherein the information to be distributed is information of a Markup language format wherein said receiving step is also arranged so as to receive a second broadcast signal provided by multiplexing second signal distributed without using the Markup language description format, and a second error check code; and~~

performing error correction or detection processing of the ~~information to be distributed using the first error ~~correction~~ check code and the ~~error correction or detection check code,~~~~

wherein the processing based on the error correction check code and processing based on the error correction or detection check code being executed at different timings said performing step is also arranged so as to perform error correction or detection processing on the second information by using the second error check code, when the second broadcast signal is received in said receiving step.

Claim 39 (Canceled)

Claim 40 (Original): An information processing method comprising the steps of: receiving a broadcast signal obtained by multiplexing information to be distributed in a description format, used in a multimedia network, as an entity of a data format used for multiplexing first character information in an FM audio signal; and displaying second character information using display means for displaying the first character information when the information to be distributed has the second character information.

Claims 41-48 (Canceled)

Claim 49 (New): An information processing apparatus comprising: receiving means for receiving a broadcast signal, wherein said receiving means is arranged so as to receive a broadcast signal provided by multiplexing first information of a Markup language description format and a first check code for correcting an error in the first information, and a broadcast signal provided by multiplexing without using the Markup language

description format, second information and a second check code for correcting an error in the second information, and wherein the first and second check codes have a common code length;

reproducing means for reproducing by using the check code, the information multiplexed in the broadcast signal received by said receiving means; and

outputting means for outputting the information reproduced by said reproducing means to display means.

Claim 50 (New): An information processing apparatus according to claim 49, wherein the broadcast signal is an FM audio signal.

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Claim 51 (New): An information processing method comprising the steps of: receiving a broadcast signal, wherein said receiving step is arranged so as to receive a broadcast signal provided by multiplexing first information of a Markup language description format and a first check code for correcting an error in the first information, and a broadcast signal provided by multiplexing without using the Markup language description format, second information and a second check code for correcting an error in the second information, and wherein the first and second check codes have a common code length;

reproducing the information multiplexed in the broadcast signal received in said receiving step, by using the check code; and

outputting the information reproduced in said reproducing step to display means.